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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/025,855 | 12/26/2001 | Yasukazu Nihei | Q66571 | 8124 |

7590 06/02/2005
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Washington, DC 20037-3202

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| EXAMINER |
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GURZO, PAUL M

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| ART UNIT | PAPER NUMBER |
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2881

DATE MAILED: 06/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|-------------------------------|--|--|
| Office Action Summary | Application No. 10/025,855 | Applicant(s) NIHEI, YASUKAZU  | |
| | Examiner Paul Gurzo | Art Unit 2881 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 May 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-58 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 7, 10, 13, 15-20, 26, 29, 32, 34-39, 41, 45-48, 51 and 52 is/are rejected.
- 7) ☒ Claim(s) 2-6, 8, 9, 11, 12, 14, 21-25, 27, 28, 30, 31, 33, 40, 42-44, 49, 50 and 53-58 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>12/01</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 7, 10, 13, 15-20, 26, 29, 32, 34-39, 41, 45-48, 51, and 52 stand rejected under 35 U.S.C. 102(e) as being anticipated by Okada et al. (6,177,968).

Regarding claims 1, 20, and 39, 968 teaches method for displaying an image, comprising the steps producing a polarization inversion pattern in a ferroelectric member in accordance with image information as to produce a surface charge pattern corresponding to the polarization inversion pattern, and producing an image contrast in a contrast production member by an influence of the surface charge pattern, where the contrast production member is joined to the ferroelectric member (col. 2, lines 15-49, col. 6, lines 9-61, col. 8, lines 62-67, and col. 16, lines 6-18).

Regarding claims 7, 26, and 48, 968 teaches a bias voltage application (col. 5, lines 21-26) as well as a transparent conductive film (Fig. 1, ref. 1 and 11).

Regarding claims 10, 29, and 51, the Examiner contends that it is inherent that the transparent film is transparent to infrared light.

Regarding claims 13, 15-19, 32, 34-38, 41, 45-47, and 52, 968 depicts a base in Fig. 1 and teaches the use of an inorganic oxide as a tin oxide which teaches on the claimed metal oxide

Art Unit: 2881

and electrochromic material (col. 13, lines 24-27 and col. 14, lines 8-14). Further, it is inherent that the oxide can be viewed as a dopant and the teaching of a metal oxide as stated above teaches on the claimed dopant and/or oxide composition.

Allowable Subject Matter

Claims 2-6, 8, 9, 11, 12, 14, 21-25, 27, 28, 30, 31, 33, 40, 42-44, 49, 50, and 53-58 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art does not teach or render obvious producing the polarization inversion pattern by heating the ferroelectric member, the contrast production member is made of an electrochromic material, the application of infrared light or a plurality of light to heat conversion elements, or color formation elements or conductive and non-conductive portions.

Response to Arguments

Applicant's arguments, filed 5/11/05, with respect to claims 2, 21, 14, 33, 40, 53, and 56-58, have been fully considered and are persuasive. The rejection of these claims has been withdrawn.

Applicant's arguments filed 5/11/05, with respect to claims 2, 21, 14, 33, 40, 53, and 56-58, have been fully considered but they are not persuasive. Applicant argues that the prior art does not teach the production of a surface charge pattern corresponding to the polarization inversion pattern. Assuming Applicant's argument that a surface charge pattern aids in forming the polarization inversion pattern, a charge will be imparted onto the polarization inversion pattern. This imparted charge is produced in relation to the polarization inversion pattern. Because of this relationship, both patterns will correspond to each other. Therefore, regardless

Art Unit: 2881

of the charge pattern producing the polarization inversion pattern or not, the polarization inversion pattern will have a surface charge pattern produced on it, and this surface charge pattern must correspond to the polarization inversion pattern.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

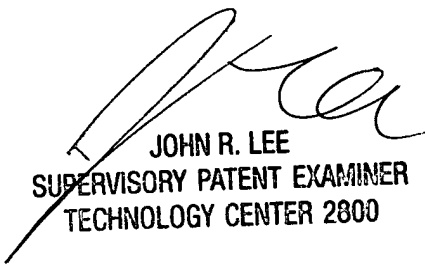
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Gurzo whose telephone number is (571) 272-2472. The examiner can normally be reached on M-Fri. 7:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Lee can be reached at (571) 272-2477. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Art Unit: 2881

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PMG



JOHN R. LEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800